

THE

1608/5727.

VOLUNTEER OFFICER'S GUIDE

THROUGH

A REVIEW,

OF TWELVE MANŒUVRES,

WITH

AN APPENDIX,

OFFERED TO THEIR ATTENTION,

Chiefly extracted from the "Rules and Regulations for the Formations, Field Exercise, and Movements, of His MAJESTY'S Forces," issued in 1798; and other Works published consistent with the present System of British Military Discipline.

By JAMES KEITH,

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ADVERTISEMENT.

THE Manœuvres contained in the following pages, which are chiefly extracted from the "Rules and Regulations for His Majesty's Forces," and other military publications, are drawn up in the order of a review, and offered as a guide to Officers of Volunteer Corps, whose situations may not permit their reading works that are complicated, or require much study.

The directions laid down for their instruction are such as, it is hoped, will enable them at all times and changes of the battalion to know their respective situations; and that the remarks contained in the Appendix will be found worthy of their attention.

Should the author be fortunate enough to render the smallest service, or assistance, to even but a few, he will be amply compensated for his trouble.

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ADVERTISING

ERRATA.

- Page 11. line 26. *by the rear* to be omitted.
23. 2d line from bottom, for *rener* read *render*.
7. 8th line from bottom, read *on* the pivot.

THE
VOLUNTEER OFFICER'S GUIDE
THROUGH
A REVIEW.

THE battalion being drawn up on the regimental parade, two or three deep, and being told off (by order of the Adjutant) into grand divisions, divisions, subdivisions, and sections, and being shouldered, the Officers take post according to seniority, from flanks to centre—the eldest Captains on the right of grand divisions—(the guns being on the flanks).

The Battalion is then ready for the Commanding Officer.

BATTALION!—ORDER ARMS!

FIX BAYONETS!

As the men fix, the Officers draw their swords.—N. B. In giving words of command, as well in as out of the ranks, Officers are to stand perfectly steady, and in their proper position; their swords held firmly in the full of the right hand, with the upper part of the blade resting against the shoulder, the right wrist against the hip, and the elbow drawn back*.

SHOULDER ARMS!

REAR RANKS!—TAKE OPEN ORDER!

The right hand man of the centre and rear ranks of each division step back, the former one, and the latter two paces, facing to the right (the Serjeant-Major taking care that all the pivots cover each other). The Officers recovering their swords, take post in front, close to the front rank, the Captains in the second right file, the first Lieutenants in the second left, and the second Lieutenants or Ensigns in the centre.—On the word—

MARCH!

The centre rank springs back one pace, and the rear rank

* See the Manual and Platoon Exercise, by His Majesty's Command.

men spring back two paces, in a line with the pivots (who, upon this *word*, front the battalion), by whom they dress. The Officers at the same time advance three paces (*taking the line from*, and dressing by, the Officer on the right), and bringing their swords across the body, in a direction from the right hip bone to the left shoulder, remain in that position: the band advances through the interval in the centre, between the Officers and front rank.

Receiving the Colours.—The colours being ready for the second Lieutenants, are advanced with the reserve between the Officers and front rank, where they remain until the word is given—

BATTALION!—PRESENT ARMS!

The men present, and the colours are delivered: On the second motion of the *present*, the Officers recover their swords; and on the last, come to the saluting position, where they remain until the music cease, and the word is given—

BATTALION!—SHOULDER ARMS!

The men shoulder: On the first motion, the Officers again recover their swords; and on the last, bring them to the original position across the body.

REAR RANKS!—TAKE CLOSE ORDER!

The Officers, recovering their swords, face to the right: the band face outwards—

MARCH!

The centre and rear ranks spring up one and two paces; the Officers take post with their divisions; and the band marches to the rear, through the intervals of the right and left centre division.—* The colours are placed between the fourth and fifth battalion companies, both in the front rank, and each covered by a non-commissioned Officer, or steady man in the rear rank: One Serjeant is in the front rank betwixt the colours; he is covered by a second Serjeant in the rear rank, and by a third in the supernumerary rank. The sole business of these three Serjeants is, when the battalion moves in line, to advance and direct the march. When they move out, the place of the first is preserved by a named Officer, or the Serjeant-Major, who moves up from the supernumerary rank for that purpose.

* His Majesty's Regulations, p. 84.

If the reviewing ground is at any distance, although it is a general rule that the battalion should march off the parade, in subdivisions or sections, in slow time, it may nevertheless be changed to quick, and the arms on the march supported or carried at discretion.

Caution!—The battalion will break into open column of subdivisions or sections—(right or left in front).

BY SUBDIVISIONS, ON YOUR (right or left) BACKWARDS WHEEL!

The pivot men make a face to the intended front. The Officer goes to the centre of his subdivision (or section) with his sword across his body, as before directed.

MARCH!

The subdivisions or sections then wheel backwards on their pivots: the Officer inclines to the pivot, where he *halts* and *dresses* his subdivision or section. In subdivisions, sometimes, *for want of officers*, and in sections invariably, non-commissioned Officers are employed to command. The Officer always takes the leading one of his company. If the column be right in front, the non-commissioned Officers must shift in the rear; but if the left be in front, they will advance in front. The Officer in the rear of the column takes the rear subdivision or section.

N. B. When the right is in front, the left is the pivot, and *vice versa*.

The order of the march is then as follows;

Pioneers, in two ranks,

Battalion Guns,

Band,

Colonel, in the rear of the band on the right,

Lieutenant-Colonel, in the rear on the left, a few paces behind the Colonel,

Colours, in the pivot flank between the 4th and 5th divisions,

Major, in the rear of the right of the last division,

Adjutant, in the rear on the left of the last division, a few paces behind the Major.

The battalion, having arrived at the reviewing ground, is wheeled into a line from the order of march. Open order is then taken (*as described in p. 5.*), to be ready to receive the General.

The

The open order is then as follows:

Officers and Colours, three paces advanced,
Major, on the right of the *Officers' line*,
Adjutant, on the left of the front rank,
Lieutenant-Colonel, two paces before the regimental colours,
Colonel, four paces before the King's,
Battalion Guns, on the flanks,
Staff, on the right of the line of officers,
Music, in the centre between the colours and front rank,
Pioneers, six paces behind the centre of the rear rank,
Drums, six paces behind their divisions.

N. B. When the battalion is reviewed singly, then, in order to make more show, the divisions of drummers may be moved up, and formed two deep on each flank of the line. When the battalion resumes close order, the drummers, if on the flanks, face to the centre, and march into the rear of the second and seventh divisions. The staff faces to the right.

The whole being now in order, wait the General's arrival. He is to be received with the compliments due to his rank, as set forth in the Regulations of Military Honours*. A camp colour is placed 80 or 100 paces in front of the centre of the battalion, where the General is supposed to take his station: but, although he may choose to quit that position, still that colour is to be considered as the point *to work upon*, and to which all movements and formations are relative.

The General having arrived, and placed himself fronting the centre, at about 50 or 60 paces distant, the Commanding Officer gives the word—

BATTALION!—PRESENT ARMS!

The Battalion presents, and the officers salute (*as in p. 6.*) Music plays *God save the King*, and drummers beat a march. The battalion will then

SHOULDER ARMS!

† The General then moves to the right, and passes in front of the regiment, the men remaining perfectly steady with carried arms; the music playing, and drums beating, but no compliment from the officers. Should he pass along the rear, the battalion does not face about. As soon as the General has re-

* Sir William Fawcett's Rules and Regulations, p. 310. published by authority.

† Reid's Treatise, chap. 3. p. 154.

turned to the right flank of the battalion, the music and drums cease. After inspecting the battalion, he returns to see the regiment march past. The Commanding Officer gives these words of command—

REAR RANKS!—TAKE CLOSE ORDER!
MARCH!

The Colonel and Lieutenant-Colonel then mount on horseback in rear of the centre.

The battalion is now to march past the general. Points will be ascertained by the Adjutant or Serjeant-Major, for the exact wheelings of the several divisions, so that their right flanks, in marching past, shall be only 4 paces distant from the camp colour, where it is supposed the General places himself to receive the salute.

Caution!—The battalion will break into open columns of companies (or divisions) right in front.

BY COMPANIES—ON YOUR LEFT BACKWARD WHEEL!

The companies then wheel, as directed in page 7. the whole taking post, as in the order of march, page 7. The drummers and fifers are on the left of their respective companies. On the word—

ORDINARY TIME!—MARCH!

the whole step off together (without music), the Officers observing, during the march, that the distances between the companies be preserved.

On every wheel made, each company will receive from its own Officer, *Halt! Left Wheel!*—and when the wheel is completed, *Halt! Dress!*—The word *March* is given, when the company following it has arrived on its wheeling point, and received the word—*Halt! Left Wheel!*—By these means, the distances will be well preserved, if the regular step of 30 inches is taken.

After the second wheel, which is in the line in which they pass the General, as soon as the leading company receives the word *March!* the music plays. When it has advanced six paces from the wheeling point, the Officer commanding it changes by the rear to the right flank, and there gives the word, *Eyes Right!* the better to prepare it for taking open order.

The companies (in succession) having arrived within 50
paces

paces of the General, receive from their respective Officers the word—*Rear Ranks! Take Open Order!*

The centre and rear ranks mark time one and two paces, during which the Officers move in front (as in p. 5.) at three paces advanced: the supernumerary Serjeants are three paces in the rear of their several divisions, the covering Serjeants having moved into the place quitted by the Captain, or Officer commanding the division, and in that position they march; and the Officers salute, about 6 paces before they arrive opposite to the General, remaining so until they have passed the General 10 paces; the drummers, being on the left of their respective companies, give a roll when the officer of their own company salutes. The Officers then bring their swords to the original position across the body, and continue marching until they have gone 30 paces past the General, when the Officer moves by the rear to the left flank, and the supernumerary Officers into the fourth rank, the word *Ranks Close!* having been previously given by each Officer commanding a company, whenever he moves from the right flank, which is done in quick time; after which he gives the word—*Eyes Left!*

The Commanding Officer, after having saluted at the head of the regiment, places himself near the General, where he remains until the last division is past*. When the battalion has arrived at the third wheeling point, the Commanding Officer gives the word—

HALT!—SUPPORT ARMS!—QUICK MARCH!

N. B. On every wheel made, each company has the word given by its officer, *Halt!—Left Wheel!—Halt!—Dress!—March!* The whole then step off in quick time (without music). Before the leading company has arrived at the wheeling point which again brings it on a line with the General, the Commanding Officer gives the word—*Carry Arms!* When the leading company has wheeled and received the word *March!* the music plays. The Officer commanding each company, after having marched 6 paces from the wheeling point (as in ordinary time), falls by the rear of his company, and takes post on the right flank, giving the word—*Eyes Right!* and in that position marches past the General (but without sa-

* Reid's Treatise.

luting), carrying his sword steadily in the hollow of his right shoulder. The ranks remain well closed up; and the supernumerary Officers and Serjeants march in a rank in the rear of their divisions, one pace from the rear rank.

After passing the General 30 paces, each Officer again shifts (in the rear of his company), and takes post on the left, giving the word—*Eyes Left!*

When the head of the column approaches the left of the ground on which it originally received the General, the Commanding Officer gives the word—**HALT!—ORDINARY TIME!—MARCH!**—(without music). In this time they march to the original ground.

It is here particularly necessary, that from the wheeling point every Officer be attentive in judging his distance for wheeling into line; if necessary, the pivots are instantly corrected; and when the Commanding Officer sees that the column is on its own ground, he gives the word,

HALT!—LEFT WHEEL AND FORM LINE!

Each pivot (~~or left flank~~) man faces to the left; the Officer goes to the centre of his company; and on the word—

QUICK MARCH!

the men wheel forward to the left, inclining to the right (the wheeling flank), in order to come round together. The Officer inclines to the right of his company, and *Halts* and *Dresses* it on the second file on the left of his right hand company, then shifts (by the rear) to the right of his own, in a line with the men.

The Music, Drummers, and Pioneers, take post in the rear.

The battalion is now ready to go through its evolutions. If the General should order the manual and platoon exercise, the Commanding Officer will give the

Caution!—The battalion will perform the manual and platoon exercise—

and then goes to the rear of the battalion.

The Major then advances in front, and gives the word,

REAR RANKS! TAKE OPEN ORDER!—(as in p. 5.)

MARCH!—(as in p. 5.)

In this position the following words:

ORDER ARMS!—UNFIX BAYONETS!—SHOULDER ARMS!

OFFICERS! TO THE RIGHT FACE!

They

They recover their swords, and face to the right.

QUICK MARCH!

They then march through the intervals of the companies to the rear, and when 3 paces beyond the rear rank they halt, and receive the word—

FRONT!

The Commanding Officer, Lieutenant-Colonel, Adjutant, &c. are at their posts in the rear, as when the battalion is at close order.

The battalion in close order as follows:

Colonel, Lieutenant-Colonel, and Adjutant, in the rear of the centre.

Pioneers, two deep behind the centre, 9 paces from the rear rank.

Battalion Drummers, in two divisions, at 6 paces behind the second and seventh battalion companies.

Granadier and Light Company Drummers, 6 paces behind their respective companies.

Music, 3 paces behind the *Pioneers*, in a single rank.

Staff, 3 paces behind the *Music*.

The Major then proceeds with the manual.

BATTALION! ORDER ARMS.

FIX BAYONETS!—SHOULDER ARMS!—PRESENT ARMS!

SHOULDER ARMS!—CHARGE BAYONETS!

N. B. When he comes to the *Charge Bayonets!* he gives a *Caution!*—That the rear ranks are to port Arms only while the front charge*.

☞ The Serjeants who occupy the places of Officers remain steady during the whole of the manual, except that they charge their pikes when the men charge their bayonets.

SHOULDER ARMS!

The Major then closes the ranks for the platoon exercise.

REAR RANKS!—TAKE CLOSE ORDER!

The Officers in the rear recover their swords.

QUICK MARCH!

The centre and rear ranks spring up one and two paces; and the Officers advance and take post with their respective companies.

* Reid's Treatise.

The following words of command are then given :

BATTALION!—MAKE READY!

(Each according to its situation of front, centre, and rear).

PRESENT!—FIRE!

HANDLE CARTRIDGE!

PRIME!

LOAD!

DRAW RAMMER!

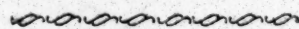
RAM DOWN CARTRIDGE!

RETURN RAMMER!

SHOULDER ARMS!

The Major then goes to his post. The Commanding Officer in the rear then gives the word—

WITH CARTRIDGE! PRIME AND LOAD!
and then proceeds with the manœuvres.



N^o. I.

Close Column in Rear of the Right Company.

Caution!—The battalion will form a close column of companies in rear of the right company—(A—pl. N^o. 1.)

REMAINING COMPANIES! TO THE RIGHT FACE!

The whole face to the right (except the company on which the column is to be formed): the Officer commanding this company shifts by the rear to the left: the Officer and 3 file (if 3 deep) of the head of each of the other companies will disengage one step to the right. On the word QUICK MARCH! the Officer leads his company by a regular pace (so that the men may keep locked up); and when he has arrived on the left of the company before him, he there halts, fronting his company, in order to see that it does not over-march; and when it has covered the leading company, he gives the word—*Halt!—Front!—Dress!*— Care must be taken to preserve one pace between the rear rank of the preceding company and the front of the succeeding one. The Officers post themselves

on the left flanks (the right being in front), and cover exactly the Officers in front.

Caution!—Form column of grand divisions (B—No. 1.)

LEFT COMPANIES! LEFT FACE! (*i. e.* second, fourth, sixth, and eighth battalion companies, face to the left) and, on the word—QUICK MARCH! they step off together. The Officers commanding these companies remain on the left of the other standing companies facing to the rear; and as soon as the right of his company arrives on the left of the standing company, he gives the word—*Halt! Front! Dress!* after which they order them to *March! Halt! Dress!* with those on their right. The Officers commanding the right companies are on their right, and those of the left companies on the left.

Caution!—The column will close to the front.—(C—No. 1.)

MARCH!

Each grand division is *halted* and *dressed*, when within one pace of the preceding one, by the Officer on the right.

Caution!—The column will march to the right, and deploy on the rear grand division—(D—No. 1.)

COLUMN! RIGHT FACE! QUICK MARCH!

The whole step off together; and when they have marched 20 or 30 paces, the rear grand division receives the word (from the Major or Adjutant)—

REAR GRAND DIVISION!—HALT!—FRONT!

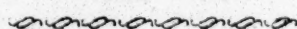
(Repeating this word of command to the second, third, and fourth grand divisions).

A Serjeant of the rear grand division steps out to the left flank of the front division, where he remains to mark the situation up to which the rear grand division is to be marched, so soon as the other grand divisions have cleared its right. The Officers on the right of grand divisions give the word of command for each to *march*, and those on the left *halt* and *dress* them by the camp colour on the right flank. The former assist in the dressing; and, when finished, the latter shift to the right of their respective companies. The rear grand division being the standing one, the others are marched up and dressed by it.

The battalion will fire once by grand divisions from left to right.

N. B.

N. B. In firing by grand divisions, three pauses must be made betwixt the *Fire* of each grand division, and the *Make Ready* of the succeeding one. The first and second Officers paying proper attention to this, the others can hardly fail in ascertaining the time. The greatest care is to be taken by the Officers, particularly those in the rear (whose principal attention this is), that the rear ranks are well locked up in the firings, and that in loading they do not fall back. The battalion guns are considered as divisions, and will fire as a part of the battalion, according to the directions given. Officers commanding divisions, on the close of the Preparative, step out one pace in front, facing to the left, and remain there until it is their turn to fire. On the finishing of the GENERAL, they step back into their former places. During the firing by grand divisions, the Officers of the left divisions fall into the rear.



No. II.

Close Column in front of the left Company.

Caution!—The battalion will form close column of companies in front of the left company—(A—No. 2.)

REMAINING COMPANIES! LEFT FACE!—QUICK MARCH!

This is done in a similar manner with the preceding. The whole face to the left, except the left company. The Officers shift by the rear to the heads of companies, disengaging as in No. 1. On the word QUICK MARCH! the whole step off together, a regular steady pace, the Officer remaining at the head of his company until it arrives on the left of the leading one, where he gives the word—*Halt! Front! Dress!*

Caution!—Form column of grand divisions.

LEFT COMPANIES! LEFT FACE!

This is performed as in No. 1. (B). It will also close to the front, as in No. 1. (C).

MARCH!

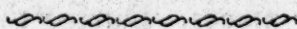
Caution!

Caution!—The column will take ground to the left, and on the march deploy on the front grand division—(B—No. 2.)

COLUMN! LEFT FACE!—QUICK MARCH!

The grand divisions are halted and fronted by the Commanding Officer, who gives the word—**FRONT! GRAND DIVISION! HALT! FRONT!** which is repeated by him to the second, third, and fourth grand divisions. The rear ones, when disengaged from those in their front, are *marched* into line by the Officers in the left flank, but *halted* and *dressed* by those on the right. The former then shift to the right of their companies.

The battalion fires once by grand divisions from left to right.



N^o. III.

Close Column on a Central Company, facing to the Rear.

Caution!—The battalion will form close column of companies on the right centre company, left in front, facing to the rear—(C—No. 2.)

RIGHT CENTRE COMPANY! RIGHT FACE! BY THE RIGHT COUNTERMARCH! QUICK MARCH!— The covering Serjeant of the right centre company moves to the other flank, faces to the right about, and stands fast, his Officer leading the company; and when it has counter marched, and the men are well covered, the Officer gives the word—*Halt! Front! Dress!*— On this company the others form.

REMAINING COMPANIES! OUTWARDS FACE! TO THE LEFT COUNTERMARCH! QUICK MARCH!—(C—No. 2.)— The Officers of each company on the right (and which form in the rear of the fourth company) continue marching at the head of their companies until they have covered those formed before them, and then *halt, front, and dress* them. The Officers of the left companies march at the head of their companies until they arrive on the right of those formed before them: they then step
out

out one pace to the right, and face to the left; and when the right of their company has covered, they give the word—*Halt! Front! Dress!* remaining upon the right, which is the pivot.

Caution!—The column will advance.

ORDINARY TIME! MARCH!

When halted, they may be ordered *to fire one round of street-firing*. The divisions then fire successively from the front of the column to the rear, each division-Officer giving the word (instantly after firing)—*Recover* (or shoulder) *Arms! Outwards Face!*— On this the division faces outwards from its centre, and receives the word—*Quick March!*—upon which they file off by the flanks of the column to the rear, and form up by files inwardly upon the right and left of the leading files, so that each may again occupy its previous situation; and how soon they are formed up, each division will receive from its own Officer, the word—*Load!*

Caution!—The column will deploy on the left centre company (or fifth division).—(D—No. 2.)

The named company stands fast; the others receive the word—

REMAINING COMPANIES! OUTWARD FACE! QUICK MARCH!—and as soon as those in the front and rear are clear of it, the Officer commanding *that* company gives the word—*March!* and *halts* and *dresses* it on his covering Serjeant, who had previously stepped out in front of the column, to mark the new point of formation for the line. The other companies are *halted* and *fronted* when clear of each other, and are *marched, halted, and dressed* in line by their own Officers. Those on the front divisions head their companies until they reach the left flank of those fronted before them, where they remain faced towards them until their rear files come up; on which they halt them, and, when marched up, *halt* and *dress* them from the second file on the left of the divisions formed upon: those on the rear divisions do the same, with this difference, that after dressing (which is done from the second file from the right of the division formed on) they go round by the rear to the right flank of their division.

The companies may be ordered to fire one round as they form up.

N^o. IV.

Countermarch of the Battalion on its Centre by Companies or Subdivisions.

THE intention of this manœuvre is to bring back the battalion to its original position.

Caution!—The battalion will countermarch by companies on its centre.—(A—No. 3.)

On this caution [the colours may countermarch, and face to the intended front], one of the wings is ordered to face to the right about; both wings are then wheeled inward, by companies or subdivisions. If the right wing, the command is given—

RIGHT WING! RIGHT ABOUT FACE!

After having faced, the battalion receives the word—

BY COMPANIES! TO THE RIGHT (or inward) WHEEL!

If the left wing is faced about, the companies are wheeled to the left. The Officers, during the wheel, incline and come towards the right flank of their companies. Upon this, the companies complete the quarter wheel to the right. The centre companies take three, or the necessary number of paces, to the left by the side step, in order to disengage them from the colours (or centre). The divisions then receive the word—

ORDINARY TIME! MARCH!

They then march along the rear and front of the colours, which have countermarched to the intended front, and successively wheel up into their respective places on each side of those already arranged in the line. As they come up to the outward flank upon which they are to form, each company or division receives from its Officer the word—*Right Wheel!* The wing that was faced about to the right, previous to the countermarch of the companies, receives, when into the line, each from its own Officer, the word—*Halt!—Front!—Dress!* and after dressing their companies go round to their proper pivot. The companies of the left wing, being already in their proper front, receive the word—*Halt!—Dress!* The battalion may advance, and fire once from centre to flanks.

Another

Another manner of performing the countermarch upon the centre may be performed by files : but as all file-marching unavoidably tends to the extension of the line, as well as delay and irregularity in closing up, the above is preferable.

N^o. V.

Change of Position in Open Column.

(B—N^o. 3.)

Caution!—Companies! On your Left Backward Wheel!—
(C—No. 3.)

MARCH!

The companies break into open column, as already described in page 7.

The Commanding Officer then gives the

Caution!—The column will move forward, and, on the march, change its direction to the left. (D—No. 3.)

The Adjutant places two camp colours in an oblique direction to the left ; the nearest is the one where the leading company takes the new direction ; the Officer of which, and the succeeding ones, give the word—*Right Shoulders forward!*—which brings them into the new alignment by a half wheel. On three or four companies having wheeled into it (the last about four paces into the new direction), the Commanding Officer gives the word—

HALT!

On which the whole column stands fast.

Caution!—Rear companies will file into the new alignment.
(C—No. 3.)

Upon this caution, the covering Serjeant of the rear companies steps out and takes the distance and direction of the front companies : these companies then receive the word—

REAR COMPANIES! TO THE RIGHT FACE!

They then face to the right ; the Officers shifting to their heads.

QUICK MARCH!

The

The Officers lead them to their respective Serjeants; they then step out one pace to the left, and face to the right, where they remain until the rear of the company arrives on the left of the Serjeant: they then give the word—*Halt!—Front!—Dress!*

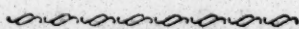
The column is then ordered—

• LEFT WHEEL INTO LINE! (D D—No. 3.)

QUICK MARCH! •

This is performed as in p. 11; every company being dressed by the camp colours on the left of the battalion.

The battalion may then fire once from flanks to centre.



Nº. VI.

Wing thrown back.

Caution!—The left company will wheel back four paces on the left (E—No. 3.); and the remaining companies go to the right about, and wheel two paces to the right.—(F—No. 3.)

N. B. The covering Serjeant places himself before, or behind, a given file (generally the 8th), from the standing flank, taking the named number of wheeling paces, thereby becoming a direction for the company to wheel up (or back) to; and when wheeling backward, as soon as the company reaches the Serjeant, in a low tone of voice he *halts* it.

• LEFT COMPANY! FOUR PACES ON THE LEFT BACKWARD WHEEL!—(E—No. 3.)

QUICK MARCH!

When it has wheeled into the new line, the Officer gives the word—*Dress!* and then shifts to the right of his company.

REMAINING COMPANIES! RIGHT ABOUT FACE!

The Officers shift to the front rank.

COMPANIES! TWO PACES TO THE RIGHT WHEEL!

Upon this, the covering Serjeant marks the distance (from the 8th file); the Officers shift to the right of companies; the Serjeants march the given number of paces, and then make a quarter face to the right; the pivot man also faces at the same time; and on the word—

QUICK

QUICK MARCH!

The companies wheel, and are *halted* and *dressed* by their own Officers.

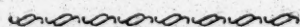
Caution!—The companies (F—No. 3.) will march in echellon to form line on the left company.—(E—No. 3.)

N. B. In echellon march, Officers must always remember to *halt* their companies, when forming line, at least two paces beyond the new alignment; as it is much easier to *dress* them forward, than if marched up, and, when halted, obliged to shuffle backward for some time: besides, it prevents the next division halting till the first is dressed.

ORDINARY TIME! MARCH!

The whole step off together. On the second company reaching the standing one, it is *halted* and *fronted* by its Officer, having previously stepped forward three files within the latter, and dressing back his own by the camp colours on the right flank of the new line, after which he moves to the right by the rear: while dressing, the men turn their eyes to the Officer on the left. The Officers of the other companies form theirs in the same manner. As soon as the third company has formed, the battalion may *fire once by companies from left to right*.

As some of the companies, during the march, will not always preserve the parallel direction to the left company, the Officer will give the word—*Right* (or *Left*) *Shoulders forward!* and when it has got into the parallel—*Forward!* Should it be necessary for the subsequent movements, the line may retire 50 or 60 paces, and then front*.

**Nº. VII.****Echellon Change of Position.**

Caution!—The battalion will break into open column of companies, right in front. (A A—No. 4.)

* His Majesty's Rules, p. 321.

COMPANIES! ON YOUR LEFT BACKWARD WHEEL!

QUICK MARCH!

N. B. As an oblique alignment is wanted, the right centre company is wheeled backwards four paces. A *Caution* is given—

The right centre company will wheel four paces, the remaining companies six paces, on the right backward. (A A—No. 4.)

QUICK MARCH!

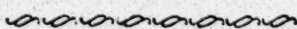
The word *Halt!* is given (in a low tone of voice) by the Serjeant, who has previously taken the ordered number of paces (from the 8th file), and made a half face to the pivot flank; the Officer then *halting* and *dressing* them. The leading companies then receive the word—*Leading* (or *Right*) *Companies! Right about Face!*

Caution!—March in echelon, to form line on the right centre company.—(B B—No. 4.)

MARCH!

The right centre company remains halted; the leading (or right) companies are *halted*, *fronted*, and *dressed* by their respective Officers as they come up; the left, being already in its proper front, is *halted* and *dressed* as they come up. In marching in echelon, the Officers are on the inward flanks of their companies, but shift to the right as soon as they have halted and dressed them.

The battalion will fire from centre to flanks.



N^o. VIII.

A new Line taken up by the Echelon Movement.

This brings back the battalion to its original front.

Caution!—The right company will wheel four paces, and the remaining companies two paces, to the right.

Upon this caution being given, each covering Serjeant takes the ordered number of paces, making a face to the right, in line with his pivot.

The

The Commanding Officer then gives the word—

QUICK MARCH!

Upon this, the companies wheel up to the Serjeants, and are *halted* and *dressed* by their Officers.

RIGHT ABOUT FACE!

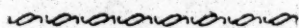
A *Caution* is then given—

Remaining companies, march in echelon, and form line on the right company.—(D—No. 4.)

On the word—

ORDINARY TIME! MARCH!

The whole step off together. As each company arrives at the new line, it is *halted*, *fronted*, and *dressed*, from the second left hand file of the company formed upon, in a line with the camp colours upon the left flank. As soon as the second or third company has formed, the companies may *fire regularly from right to left*. The battalion may advance 50 or 60 paces, and *fire from centre to flanks*.



N^o. IX.

Retreat in Line.

Caution!—*The battalion will retire.*

RIGHT ABOUT FACE!—MARCH!—HALT!—FRONT!

N. B. Upon facing to the right about, the Officers may go to the front ranks*.

The battalion may again be cautioned to *fire by alternate companies, and retire.*

FIRE BY ALTERNATE COMPANIES, AND RETIRE!

Upon this the Officers fall into the rear.

RIGHT COMPANIES! MAKE READY! &c.

After firing—*Shoulder Arms!*

RIGHT COMPANIES! RIGHT ABOUT FACE!

MARCH!—HALT!—FRONT!—LOAD!

* This, however, *ad libitum*; several General Officers of considerable experience practise the Retreat in Line with the Officers in the rear, which renders shifting and re-shifting unnecessary.

The Commanding Officer *fires* the alternate companies: in the case of his taking charge of the right companies, the next in command *fires*, and takes charge of the left companies. In marching the right companies to the rear, they dress by the King's colour on their right, which marches with them: a Serjeant is advanced six paces in front to lead the march. The left companies, in marching to the rear, dress by the regimental colour on their left; and a Serjeant, advanced in front, leads them.

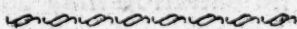
LEFT COMPANIES! MAKE READY! &c.

After firing—*Shoulder!* and receive the word—

RIGHT ABOUT FACE!—MARCH!

And are halted and fronted when in line with the right companies, and receive the word—

LOAD!



N^o. X.

Hollow Square.

Caution!—The battalion will form a square on the two centre companies.—(E E—No. 4.)

Upon this caution, the colours and reserve fall back a few paces, and the centre companies close by the side step.

INWARD FACE!

The whole face inward (except the 4th and 5th companies); the Officer of each right company shifts to its head; each division disengage 3 files; the covering Serjeants of the 2d and 3d, and 6th and 7th, companies step out, and take distance for open column in rear of the 4th and 5th; those of the 1st and 8th at one pace distance in the rear of the 2d and 7th; the Grenadier and Light Infantry in rear of the 1st and 8th. On the word—

QUICK MARCH!

The whole step off together: the Officer leading until he arrive at his Serjeant, where he faces his company, and remains until its rear arrive opposite to him; he then gives the word—*Halt!*—*Front!*—*Dress!*

The

The Commanding Officer then gives the word—

OUTWARD WHEEL, AND FORM SQUARE!—(F—No. 4.)

The Officers of the 2d and 3d, and 6th and 7th, step out in front of their centre; the 1st and 8th companies face to the right, the Officers shifting to their heads; and, on the word—

QUICK MARCH!

They step off, and are *halted* and *dressed* by their Officer: those of the 2d and 3d incline, during the march, to the left, and after they have *halted* and *dressed* their companies, shift to the right; those of the 6th and 7th incline to the right, and remain there; the 1st and 8th face to the right, and countermarch to the right. During the countermarch, the Grenadiers, Field Officers, Staff, Pioneers, Music, and Light Infantry, march into the square, and take post*. When the countermarch is completed, each Officer will give the word—*Halt!—Front!—Dress!* (The guns may be marched into the square, and shifted wherever they may be wanted.)

The square is then formed, *and may fire once by companies from the right of faces, beginning at the front face.* The Officers fall in the rear upon the Preparative.

Caution!—The square will reduce.—(A A—No. 5.)

On this caution, the centre companies open to the right and left; the colours and reserve move into line. The Commanding Officer then gives the word—

ON YOUR RIGHT AND LEFT BACKWARD WHEEL!

The Officers advance to the centre of companies.

QUICK MARCH!

The 2d, 3d, 6th, and 7th companies wheel backward, and are *halted* and *dressed* by their Officers; the 1st and 8th and Light Infantry face and countermarch to the right: the Grenadiers remain. If it is meant that the square should march by any face, the colours move behind that face; the side divisions wheel backward; and the opposite face comes to the right about. When marching in open column, they must be careful to preserve the proper distances, dressing by each other on the right and left. When *halted*, and ordered to *form square*, the divisions wheel up, and the face which came to the right about resumes its proper front: upon this being per-

* His Majesty's Rules and Regulations of 1792, sect. 178, p. 302.

formed,

formed, the rear files of the divisions may *fire independently from the right of faces*; the front rank comes to the *Charge*, and remains in that position during the rear rank's firing; after which the front rank *Recovers*, and *fires a volley*.

When the square is reduced into open column, as has been above described, they receive the

Caution!—The column will close to the front.—(B B—No. 5.)

ORDINARY TIME! MARCH!

They are halted and dressed by their respective Officers.

Caution!—The column will face outward, and form line on the two centre companies.—(C C—No. 5.)

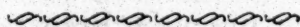
OUTWARD FACE!

The whole face outward.

QUICK MARCH!

As soon as the companies clear each other, they are *halted* and *fronted* by their own Officers, and march into line as before directed.

The battalion will fire from centre to flanks.



N^o. XI.

Retiring in Line, and Filing to the Rear.

The battalion receives the

Caution!—The line will retire.

On which the directing Serjeants face about, and move 6 paces beyond the rear rank, and halt. The battalion is then ordered—

RIGHT ABOUT FACE!

And afterwards—

MARCH!

(The Light Company moves quickly round by the flanks, and forms in the rear, extending so as to cover during the retreat at about 50 paces distance.)

After the battalion has marched 30 or 40 paces, it receives the *Caution!—The battalion will, from the proper right of companies, file to the rear.*—(D—No. 5.)

At the word of command—

PASS COMPANIES BY FILES!

The Officers commanding them give the word—*Left Turn! Quick March!* Upon this the Officers commanding them turn quickly to the left with the leading file, the rest following in succession. The heads of companies must observe the proper distance from each other, and dress so that the line may not be broken, or uneven, when ordered to form. (The same rule to be observed in passing companies to the front.)

The Commanding Officer orders the whole to

HALT!—FRONT!

The battalion now stands in open column, right in front. The companies then receive the word—

LEFT WHEEL, AND FORM LINE!

QUICK MARCH!—(E E—No. 5.)

The companies are then halted and dressed by their respective Officers.

N^o. XII.

Advancing in Line, Filing, and Charging
to the Front, &c.

Caution!—*The line will advance.*

MARCH*!

After the line has advanced 50 paces, the Commanding Officer gives the

Caution!—*The battalion will file from the right of companies.*

PASS TO THE FRONT!

(The reverse of D—No. 5.) Upon which the Officer of each company gives the word—*Right Turn!—Quick March!* taking care, upon the march, to observe the proper distance from each other, and dressing in line. The Commanding Officer gives the word—

HALT!—FRONT!

* For the Light Infantry movements in this manœuvre, see Reid's Treatise.

The companies stand in open column, the left in front. After dressing the pivots, they receive the word—

RIGHT WHEEL, AND FORM LINE!

Caution!—The battalion will advance, and fire by wings obliquely (to the centre, or opposite flanks).

MARCH!

After marching about 25 paces, the battalion is ordered to HALT!

RIGHT WING, OBLIQUE TO THE LEFT!—READY!—'PSENT! FIRE!

After the right wing is loaded and shouldered, the left is fired oblique to the right; and after being *loaded* and *shouldered*, the battalion is *cautioned* to advance (about 50 paces), and, when halted, *to fire a volley, and port arms.*

QUICK MARCH!

After having moved forward 20 paces, the front rank, upon the word—CHARGE!—charges bayonets: the rear rank remains at the *Port*. After being halted, the battalion is then ordered to—

SHOULDER ARMS!—and, PRIME AND LOAD!

The battalion is then *cautioned—To retire in line (or by wings).*

RIGHT ABOUT FACE!—MARCH!

Retiring 30 paces, when the Commanding Officer gives the word—

HALT!—FRONT!

The battalion then *fires*; and, in the case of retiring by wings, when the right wing is *halted*, the *left one fires*; and when the left wing has retired, and on a line with the right, and fronted, the right is then ordered to—

MAKE READY! &c.

The colours are divided upon advancing or retreating by wings, as expressed in page 24.

Caution!—The battalion will advance.

MARCH!—HALT!

Caution!—Fire two volleys to the front, and, after the last, port arms and half cock.

BATTALION! READY!—'PSENT!—FIRE!

After which—

HALF COCK ARMS!—SHOULDER ARMS!—SHUT PANS!

The

The Field Officers now dismount. The Adjutant will see the line well dressed for taking open order. The Commanding Officer gives the word—

REAR RANKS! TAKE OPEN ORDER!

MARCH!

As in pages 5 and 11: the Colonel and Lieutenant-Colonel, advancing through the centre interval, take post as in page 8.

THE BATTALION WILL ADVANCE IN OPEN ORDER!

MARCH!

The whole step off (without music), and, when within 50 paces of the General, the word—HALT! is given.

PRESENT ARMS!

The men present, and Officers salute, as in page 6.

SHOULDER ARMS!

REAR RANKS! TAKE CLOSE ORDER!

MARCH!

As in page 6. The Lieutenant-Colonel then mounts in the rear. The Commanding Officer advances to the General, to know if he has any further commands for the battalion; if not, he mounts, and gives the

Caution!—The battalion will break into open column of subdivisions (or sections), right (or left) in front.

BY SUBDIVISIONS (or Sections), ON YOUR RIGHT (or Left) BACKWARD WHEEL!

MARCH!

As in page 7. The whole take post as in the marching off the parade.

MARCH!

(Without music.) When the battalion has marched off the parade, it may be halted, arms supported, and time changed; thus they march to their parade, where they receive the word—

CARRY ARMS!

RIGHT (or Left) WHEEL, AND FORM LINE!

Open Order is again taken.

The colours are attended by a guard of the right company to the place where they are to be lodged; and, during the time of their passing the front of the battalion, the battalion presents arms, and the Officers salute the colours as they pass. The Commanding Officer then gives the word—

SHOULDER ARMS!

And closes ranks (as before); then—

ORDER ARMS!

UNFIX BAYONETS!

(When the men unfix, the Officers sheath their swords.) Then

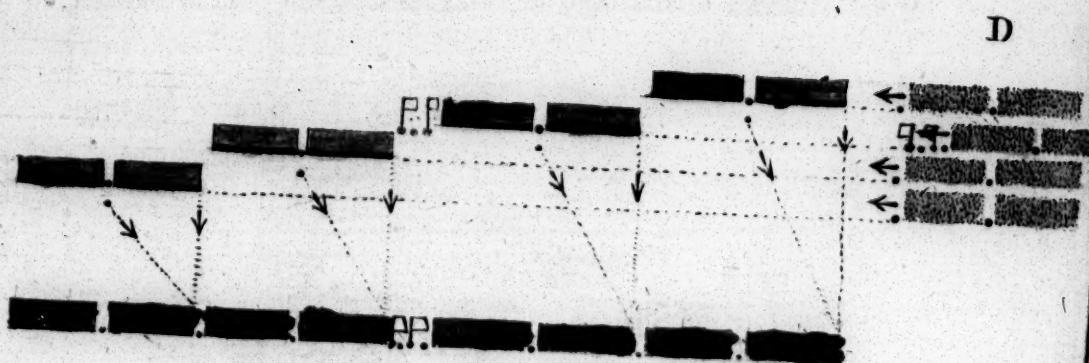
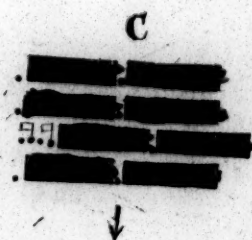
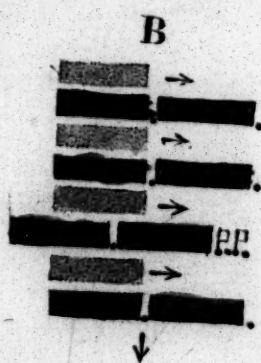
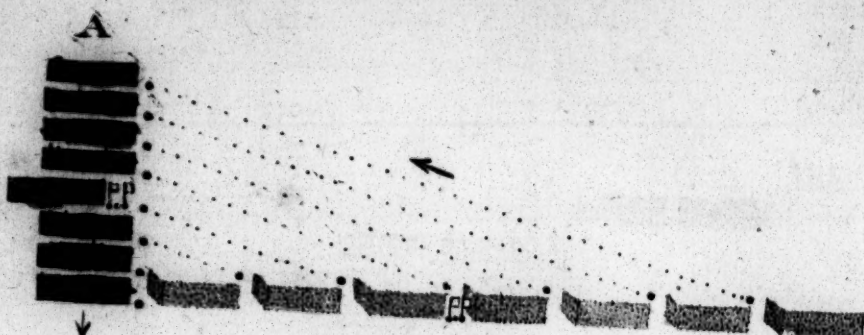
SHOULDER ARMS!

The Commanding Officer then makes the signal for the Officers to fall out of the ranks: and this concludes the review.

N. B. The number of paces mentioned in the several movements are not positively prescribed; they must be determined, in a great measure, by the ground on which the battalion is reviewed: yet, if the ground allows the marches in front and rear to be longer, it will be so much the better.

Yellow - The Position moved from -
 Blue - Intermediate -
 Red - The Manoeuvre complete -
 → Direction of the movement

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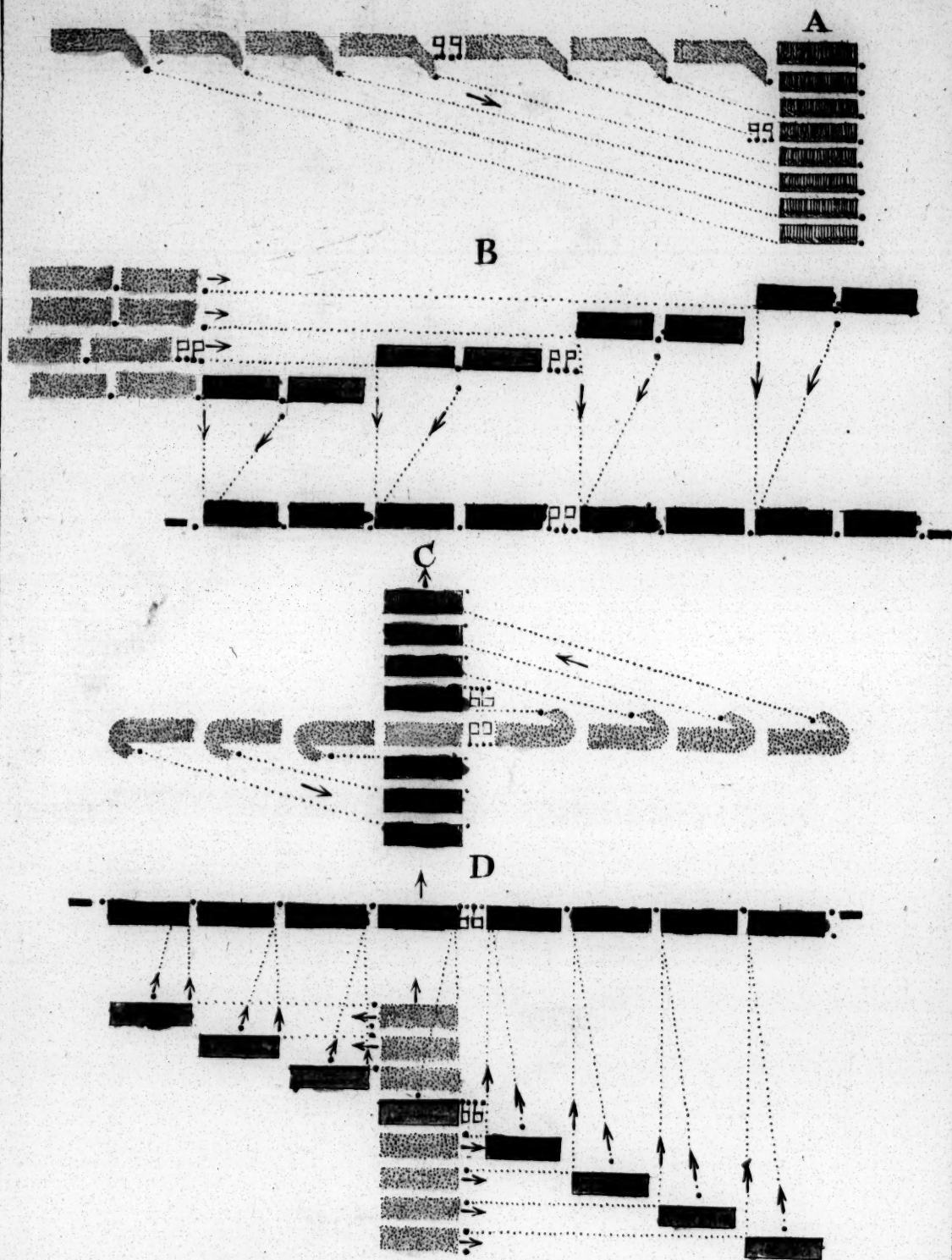
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Page 10 of 10

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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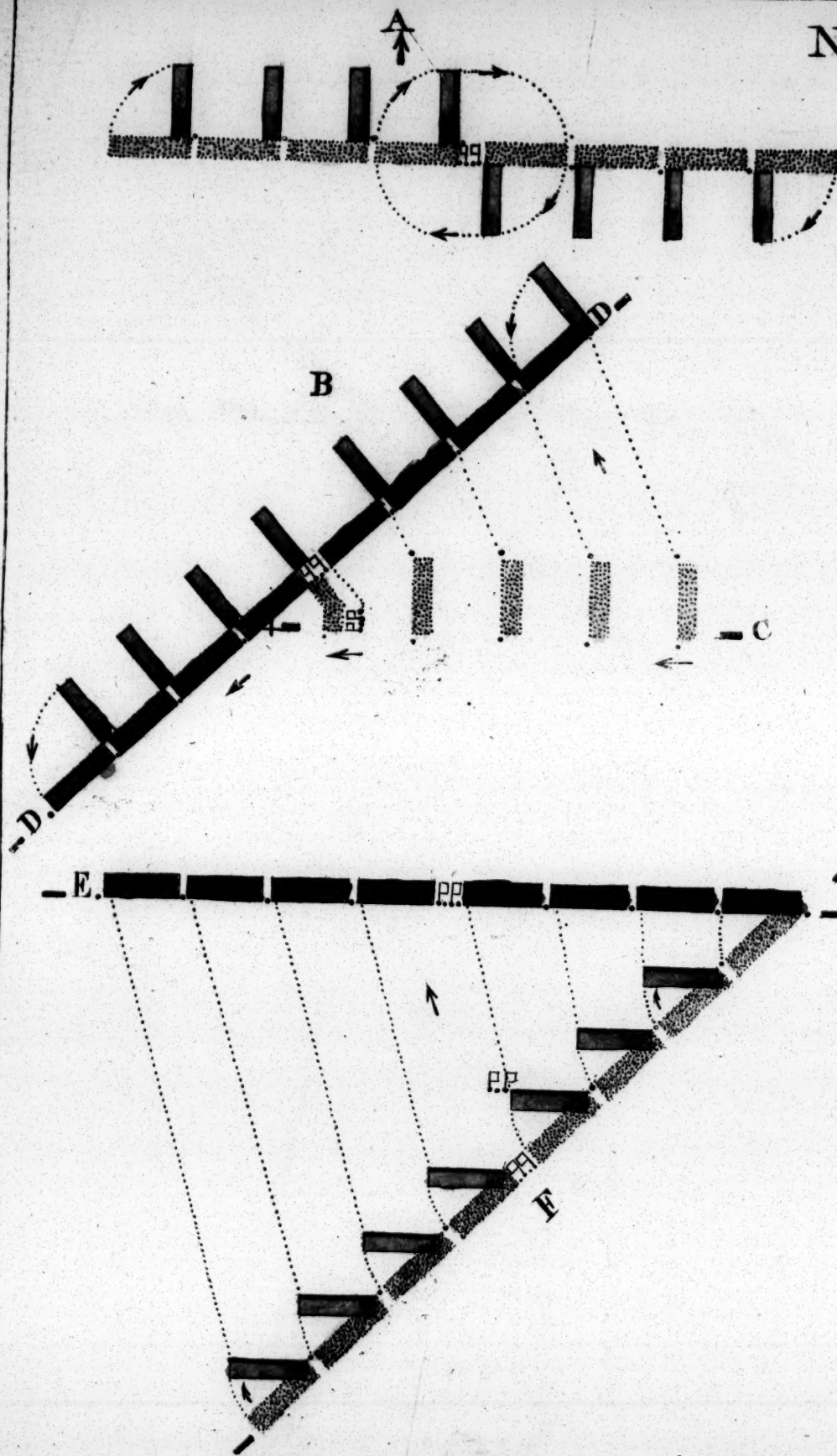
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Figure 1. The effect of the concentration of the solution on the adsorption of the dye.

THE UNIVERSITY OF CHICAGO

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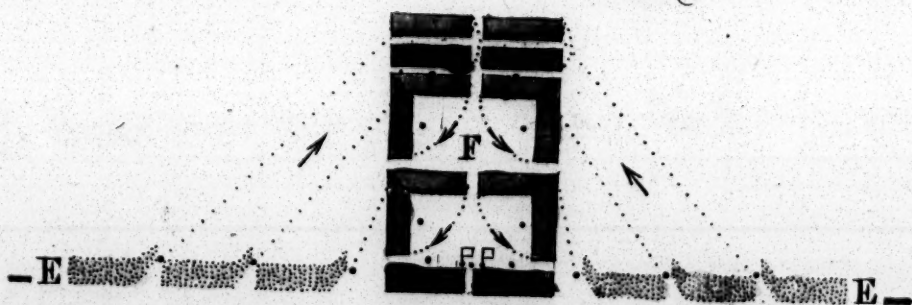
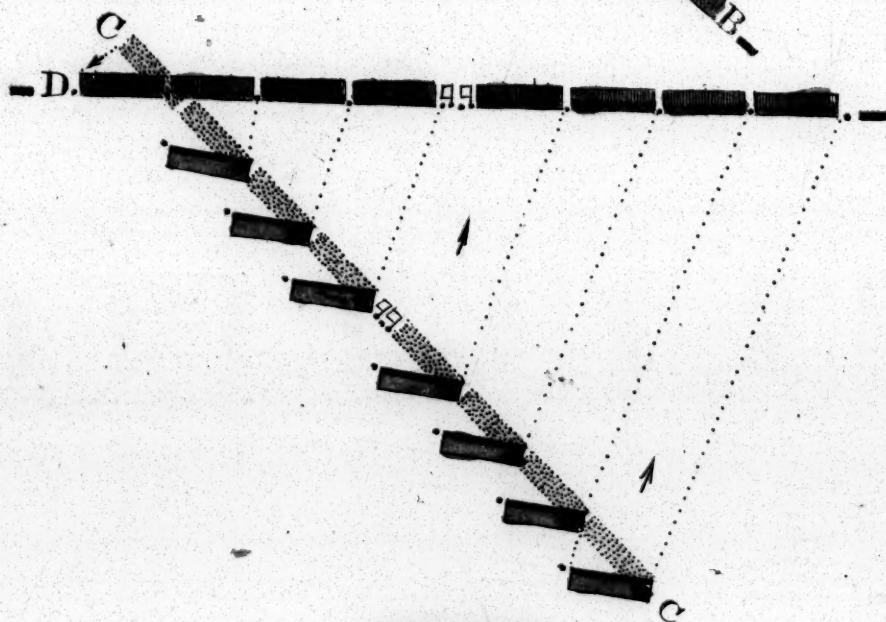
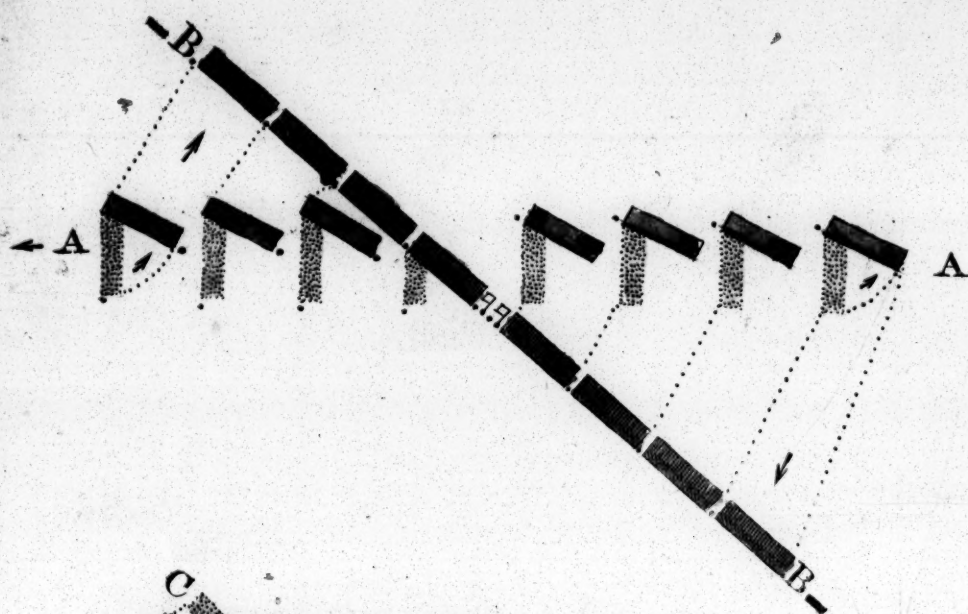
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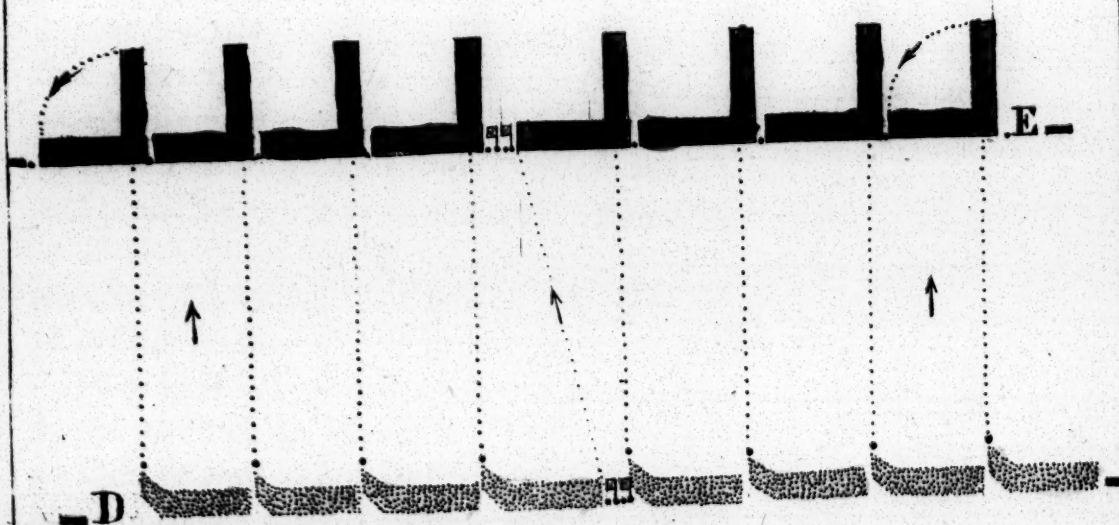
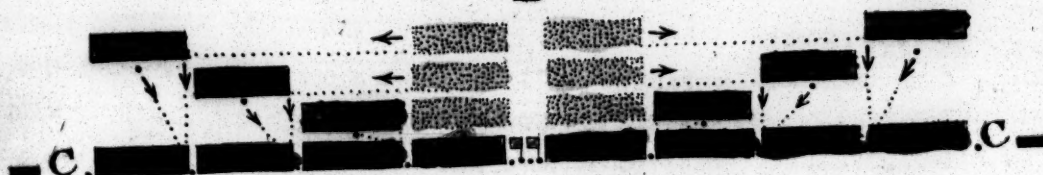
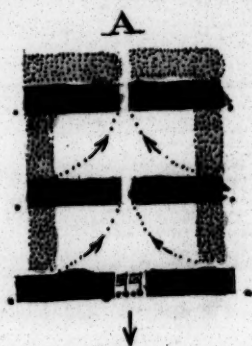
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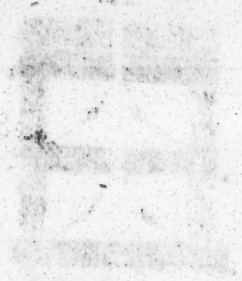


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APPENDIX,

Principally extracted from the " Rules and Regulations published by Authority," and offered to the particular Attention of Volunteer Officers.

AS Officers of Volunteer Corps have not, from their various situations in business, leisure or opportunity of consulting works that require much study in military science, Reid's Treatise on the Duty of Infantry Officers, upon the present System of the British Military Discipline (from which part of the following extracts are taken), is particularly worthy their perusal. In order to enable them, under these circumstances, to know their duty in the several formations laid down, every particular has been attended to in the preceding pages, that may tend to their performing them (by moderate study and practice) with sufficient accuracy and correctness.

The examples selected are such as (it is presumed) comprehend what may be considered best suited to the nature and limited extent of service expected to be performed by corps of that description. In this situation, however, it is necessary that every Officer (as far as possible) should be instructed in each individual circumstance required of a recruit or soldier; and accustomed to give words of command with that energy and precision which is so essential. From the number of files in division, they should learn accurately to judge the ground necessary for each, and to extend that knowledge to the front of greater bodies.

They must acquire the habit of readily ascertaining by the eye perpendiculars of march, and the squareness of the wheel: an Officer must not only know the post which he should occupy in all changes of situation, the commands which he should give, and the general intention of the required movement, but he should be master of the principles on which each is made, and of the faults that may be committed, in order to avoid them himself, and to instruct others. These principles are in themselves

selves so simple, that moderate reflection and attention will soon show them to the eye, and fix them in the mind. In the progressive situations at which he arrives, his exertion should be unremitting to qualify himself for them. The necessity of order, steadiness, and silence, and of executing every thing deliberately and without hurry, should be strongly inculcated on the soldier, and in volunteer corps is particularly necessary.

All words of command, and particularly the words *halt* and *march*, must be given *short, quick, and loud*; so as to be caught and repeated from right to left of a line, or from front to rear of a column, in the shortest time possible: even to the smallest bodies, the word of command ought to be given in the full extent of voice, and in a sharp tone. The justness of execution, and the confidence of the soldier, can only be in proportion to the firm, decided, and proper manner in which every Officer of rank gives his orders. An Officer who cannot thoroughly discipline and exercise the body intrusted to his command, is not fit, in time of service, to lead it to the enemy; he cannot be cool and collected in the time of danger. It is not sufficient to advance with bravery; it is requisite to have that degree of intelligence which should distinguish every Officer according to his station: and when a soldier has reliance on the capacity of those who conduct him, he will act with spirit and animation.

General Remarks.]—No part of military duty is so essential as regular and uniform marching, either in slow or quick time; all movements depend so much upon it, that the greatest attention should be paid towards it*. Particular regard should be paid to the men in dressing equally from either flank; that when the word *dress* is given, and the point to which they are to dress, the eyes be thrown that way, with a small turn of the head; and that, in divisions, they preserve their dressings by the pivot man on the flank, who is answerable for all deviations.

The supernumerary rank should also pay great attention in keeping up the rear ranks close to the front.

* See Reid's Treatise, p. 127—131.

Wheelings.—Great care must be taken, in wheeling, that the men incline more toward the pivot than to the other flank; and that they feel inward to it, and look outward (except the wheeling flank man who looks inward). In wheeling by files, particular attention must be paid that no ground be lost, but that the pivot men of each file successively turn short round, while the coverers in the rear ranks take large steps to preserve a proper situation.

All extension of files in marching or countermarching, by divisions or battalion, ought to be carefully avoided, as it greatly retards the succeeding operations.

The following rules for wheeling, taken from the “Rules and Regulations published by Authority,” are highly useful for ascertaining given distances. As the circumference of the quarter circle, which a division describes on its wheel, is one half more (nearly) than its front; it is necessary that, in open column, it should, in the same time that it takes to march over a space equal to the extent of its front, not only complete the whole of the quarter circle, but be enabled to move on at its just distance from its preceding division, and not stop that which succeeds it. The whole must be quickened, or the step lengthened (or a part of both applied), in proportion to the general march.

Number of Files in a Division, each occupying 22 inches.	Files.	Front of Divisions, in ordinary Paces of 30 inches.	Paces.	Inches.
5	5	3	20	
10	10	7	10	
12	12	8	24	
14	14	10	8	
15	15	11	0	
16	16	11	22	
18	18	13	6	
20	20	14	20	
30	30	22	0	
40	40	29	10	
50	50	36	20	
100	100	76	10	

A divi-

A division consisting of 10 files, and each occupying 22 inches, takes 7 paces 10 inches for its front: now 75 steps in a minute being the ordinary time, and 120 the wheeling time, $75 : 120 :: 7\frac{1}{2} : 11\frac{1}{2}$, nearly the number of wheeling paces, of 30 inches each, which the wheeling man can take, while the following division is making its $7\frac{1}{2}$ ordinary paces in front, and 11 of which make exactly the quarter circle; but if each of these paces is lengthened 3 inches, then the wheel will be completed in 10 steps, and a pause of one pace and $\frac{2}{3}$ of a pace, or $\frac{5}{6}$ of a second of time, will be reserved for the *halt*, *dress*, and *march*, of the division, after it has, at 10 long paces of 33 inches, completed the wheel. This pause will increase or diminish according to the greater or less extent of the wheeling body; and, in the above proportion of time and step, it is $\frac{1}{7}$ th of the time employed by such body in wheeling the quarter circle.

This allowance, which is barely sufficient in a division of 10 files, and which cannot be well increased either by length of step or quickness of time, shews how *pointed* and *quick* the commands must be, not to occasion a loss of ground to each successive division at the points of wheeling.

It appears, that the front of any division or body occupies, in ordinary paces of 30 inches, *nearly three-fourths* of the number of files of which it is composed; that the circumference of the quarter circle, which it describes in wheeling paces of 33 inches, is the *same* as the number of files; which being once ascertained in each division, the Officer commanding it must, on all occasions, recollect the number of paces which the wheeling flank man must take to complete the quarter circle; also the spare time which he has to regulate the *halt* and *march* of his division after wheeling, which, when in open column, if not attentively performed, will occasion on the march an irregular length of step, and extent of division.

N. B. All wheelings are made in quick time.

Wheeling paces required to describe $\left\{ \begin{array}{l} \text{the 6th} \\ \text{— 8th} \\ \text{— 16th} \\ \text{— 32d} \end{array} \right\}$ of the circle, or angle of $\left\{ \begin{array}{l} 60^\circ \\ 45^\circ \\ 22\frac{1}{2}^\circ \\ 11\frac{1}{4}^\circ \end{array} \right\}$ are $\left\{ \begin{array}{l} \frac{2}{3} \\ \frac{1}{2} \\ \frac{1}{4} \\ \frac{1}{8} \end{array} \right\}$ of the number of files of which the front consists.

As

As has already been observed, every Officer should be particularly attentive that the marches are made with accuracy at the required times and length of step, and on such objects as are given in column and echelon; that at all times the proper distances are preserved, so that the formation into line may be made true, and without false opening, or necessity of correction; that the wheelings are just, and in the manner prescribed, they should be alert in their changes of situation, exact in their own personal movements, avoiding hurry or unnecessary delay.

Field Exercise.]—Field exercise, which comprehends all the manœuvres a battalion can perform, and which is, in general, under the immediate inspection of the *Major* and *Adjutant*, assisted by the *Serjeant-Major* and *Drill-Serjeant*, ought to be as frequently attended as the several situations of the Officers will permit: and they should occasionally fall in, that they may accustom themselves, upon the battalion taking a new position in echelon, or in forming columns, to mark the ground to which the divisions have to wheel, and the pivot flanks of divisions, as the Serjeants do; this will enable them to judge of distances, a very necessary thing in all manœuvres, and upon which a just and quick formation into line, and many other movements, depend.

Of the Firings.]—No part of field exercise is of more consequence than the just and true firing of a battalion. The greatest care is to be taken by the Officers that the men level well, and that the rear ranks are well locked up in the firings: these being well attended to (joined to a celerity in loading), will give essential advantages when led to actual service.

N. B. *In firing by wings*, one wing will make ready the instant the other shoulders. If one wing is advancing, the *make ready*, *present*, *fire*, of that wing must instantly follow the *march* of the other: and, in the retreating, the *halt* of the retiring one.

If the battalion be formed two deep, both ranks will fire: but if it be in three ranks, the front and centre fire standing, and the rear rank remains shouldered as a reserve.

When the battalion is ordered to fire by companies in wings, the wings carry on their fire independent of each other. If there

there are four companies in a wing, three pauses must intervene between the *fire* of each and the *make ready* of the succeeding one; and if there are five companies, two pauses only: this allows sufficient time for the first company to load, shoulder, and be ready as soon as the last has fired.

Firing by Grand Divisions and Platoons.]—In firing by grand divisions, 3 pauses must be made betwixt the firing of each division, and the *make ready* of the succeeding one.

In general, after the *march* in front, and *halt* of the battalion, company, or platoon, firing should begin from the centre, and not from the flanks: in other cases, and in successive formation, it may begin from whatever division first arrives and halts on its ground.

File-Firing, whether by companies or by battalion, is done from the right; each file presenting and firing in rotation; the rear rank (when not ordered to keep shouldered as a reserve) taking the time from those in front. File-firing is sometimes used on rejoicing days, when it gets the name of a *feu de joie*.

The words of command are now shortened in the pronunciation, as, for instance, '*Toon* (or division), *Ready*, '*Psent*, *Fire*. In firings, the Officers should be animated and exact in their commands.

Attention of the non-commissioned Officer.]—Those who have the charge of drill ought to be strictly attentive to the instruction of the recruit upon the principles laid down and agreeable to the manual and platoon exercise, ordered by authority to be practised.—See the copy published in 1792.

They should pay every attention in correcting, and making them repeat the several motions, until they perform them with exactness and promptitude; and frequently to impress them with the absolute necessity of order and steadiness, without which nothing will appear to be, nor can be well executed. They must also (as has already been observed) be careful in their instruction in the great and necessary point of marching: the due time and length of step must be strongly impressed until the proper cadence of pace become habitual. Every just movement depends upon the correct equality of march: when this is not attended to, disunion and confusion must necessarily follow.

follow. The time, or measure, may be impressed on the men's ears by 5 or 6 taps of a drum, regulated by a plummet of the following several lengths :

	Inch.	Hun.
Ordinary time, - - - - - 75 steps in a minute,	24	96
Quick time, - - - - - 108 —————	12	63
Quickest, or wheeling time, 120 —————	9	80

A musket ball, suspended by a string which is not subject to stretch, and on which is marked the different required lengths, will answer the above purpose.

To the equal and unvaried cadence and length of step, thus attained by habit, can troops alone trust for the preservation of their line in advancing upon an enemy, when dust, the smoke of artillery, rain, fog, and many local circumstances, make it impossible to depend on distant points, the uncertain time given by timid musicians, or any other adventitious step*.

As the non-commissioned officers of volunteer corps have often (in the occasional absence of the superior Officers) charge of divisions, they should study to make themselves sufficiently acquainted with the duties here pointed out, so that they may, at all times and changes of the battalion, be enabled to act in the separate capacities when called to that situation.

When doing duty in their respective stations, every attention should be paid, when covering, to fall out readily, so as to mark the ground necessary for the required movement; and when acting as supernumerary, to keep the rear ranks close locked up; also to observe that they take their ground properly during the firings, and that they do not fall back in loading.

As the volunteer act requires a certain extent of duty to be performed by those who compose corps of that description, before they can draw pay, accurate cheque rolls of the attendance of every individual in the respective companies must therefore be attended to by the Serjeants, so as to enable them to make exact and just returns to the Commanding Officer.

* See the Drill-Serjeant and Corporal's Assistant, published by Capt. Roy of the 4th Fencible Regiment, which comprehends many useful and necessary sections.

To sum up these brief remarks—order, steadiness, and attention in the soldier, should at all times be implicitly adhered to, and cannot be too often inculcated; that, even in the midst of surrounding noises, his eye and ear be attentive to his own immediate Officer only, the loudness of whose commands, instead of creating confusion or unsteadiness, reconcile to the hurry of action.

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